

HIGHWAY DEPARTMENT

John F. Knipe, Jr., Superintendent

During the winter of 2002-2003, there were thirteen (13) plowable snowstorms with a total of 93 inches of snow. The first snowfall was on November 27, 2002 and the last on April 7, 2003. Plowing is carried out only when a storm accumulates three inches or more of snow.

Snow and ice control was maintained by twenty-one pieces of heavy equipment and two sidewalk plows. Highway personnel, as well as four trucks from other departments, were used during snowstorms. The Town also used fourteen private contractors utilizing twenty three (23) pieces of equipment.

The Department used 3,267.34 cubic yards of sand, 6,637.75 tons of salt and 6,000 gallons of liquid calcium chloride. Every effort was made by this department to limit the amount of salt used on roadways and yet still maintain a safe driving environment.

The task of maintaining the many miles of public and private streets in 2003 was carried out by the Highway Department, which consists of a Superintendent, one Motor Equipment Repair Foreman, two Mechanics, one Foreman, six Equipment Operators and two clerks. Responsibilities of the Highway Department include maintenance of town equipment, roads, traffic lines, storm drainage, installation of traffic and street signs, brush control along roadways, snow and ice control, resurfacing, and sealing of streets. There are 138.21 miles of town roads, including the addition of twenty one (21) streets: Baldwin Circle, Bracken Road, Bridle Path (P/O), Coachman Ridge Road, Dickinson Circle, Elliot Circle, Faulkner Road, Hawthorne Road, Hemingway Street (P/O), Holman Heights Circle, Horseneck Road, Keyes House Road (P/O), Myriah Road, Old Cart Road, Rams Gate Place, Saxon Lane (P/O), Stonybrook Lane (P/O), Tip Pond Road, Travis Road, Weagle Farm Road, and Woodchuck Hill Road.

The department is also responsible for snow and ice control on private streets which have a total of 13.07 miles and 13.41 miles of subdivision streets which have not yet been accepted by the Town.

Since the closing of the Town's sanitary landfill located on the Hartford Turnpike (Route 20), this department has seen an increase of illegally disposed of rubbish and building debris along public ways. During the course of the year, personnel and equipment from this department have been utilized to pick up and dispose of this material.

SIDEWALK PLOWING

Sidewalks in the vicinity of schools are plowed, which includes thirty-eight streets with approximately 21.7 miles of sidewalk. This work is performed by two sidewalk plows operated by department personnel.

SAND BARRELS

Sand barrels are placed in ninety locations where winter driving is hazardous.

DRIVEWAY PERMITS

Shrewsbury residents who resurface, reconstruct, or construct a new driveway are required to apply at the Highway Department Office for a permit. These permits allow this department a method of controlling the manner in which this work is done. There were a total of forty (40) permits issued during 2003.

STREET AND SIDEWALK SWEEPING

Sweeping of streets and sidewalks were done from the second week of April through the first week of July. Two sweepers were used for one shift operation.

TRAFFIC LINES

A private contractor completed reflective traffic lines on twenty-five streets totaling 340,925 feet. Crosswalks and special sign painting on streets were done by Highway Department personnel at various locations.

RESURFACING

Bituminous Concrete Type I asphalt was applied to the following streets. The Town appropriated funds and reimbursement was received under the Highway State Aid Program.

<u>Reimbursement 100%</u>		
<u>Street</u>	<u>Length (in feet)</u>	<u>Amount (in tons)</u>
Flintlock Drive	1,219	510
Russell Avenue	408	110
Park Street Place	302	<u>83</u>
	Total of 100% Streets	703

RESURFACING – MICROSURFACING

The Town of Shrewsbury started using a new surface treatment as a way of prolonging the life of its Bituminous concrete Type I roadways. The material used in this process is a mix of liquid asphalt, stone dust, portland cement and a curing agent.

The cost of this process is about half the cost of an overlay and has life expectancy of 7-10 years.

This application was applied to the following streets:

<u>Street</u>	<u>Length (in feet)</u>	<u>Square yards</u>
Hill Street	3980	10,600
Old Brook Road	2970	9,925
Bluegrass Lane	1015	4,009
Worthington Avenue	1200	4,126
Robin Road	707	2,360
High Street	3270	7,856
Linda Circle	250	<u>1,138</u>
TOTAL		40,014 s.y.

STORM DRAINAGE

Drainage work was done on the following streets by utilizing Highway Department personnel and equipment rental or by private contractors.

<u>Street</u>	<u>Length (in feet)</u>	<u>Pipe Size</u>
Walnut Street	36'	8" ADS
	76'	12" ADS
Cherry Street	90'	8" ADS
Gold Street	40'	48" ADS
Pratt Lane	54'	8"
" ADS		
Grafton Street	540'	12" ADS
	100'	8" ADS
Willard Avenue	211'	12" ADS
Elm Street	280'	12" ADS
Coolidge School	90'	12' ADS

BRUSH CONTROL

During the year, brush was cut along public roads utilizing department personnel, using a tractor and brush-cutting machine and a private contractor.

NEW EQUIPMENT

New equipment purchases include one 2003 Pelican Elgin Sweeper, one 11' Boom Flail mower attachment, Graco line painter, and a 2003 Bombardier sidewalk plow.